

First detection of exoplanet transits with the SAO RAS 1-m telescope

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Abstract

© Pleiades Publishing, Ltd., 2015. We present the results of observations of single exoplanet transits conducted with the SAO RAS 1-m telescope. We studied two exoplanets with different eclipse depths: WASP-43b and WASP-104b. Both transits were detected with different degrees of accuracy depending on the eclipse depth and observing conditions. The typical accuracy of registration of the transit amplitude in the broadband V filter of the Johnson system is (formula presented). We also present the characteristic time moments of the transits. Based on the obtained results, a further program of exoplanet research at SAO RAS has been developed.

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Keywords

Planetary systems